

Central California Ozone Study (CCOS)
Emission Inventory Coordination Group Meeting

Meeting Highlights
December 14, 1999

Attendees	Affiliation
Toch Mangat	Bay Area AQMD
Tom Perardi	Bay Area AQMD
Bruce Katayama	Sacramento Metro AQMD
Hao Quinn	Sacramento Metro AQMD
Brigitte Tollstrup	Sacramento Metro AQMD
Scott Nester	San Joaquin Valley Unified APCD
Stephen Shaw	San Joaquin Valley Unified APCD
Jim Sweet	San Joaquin Valley Unified APCD
Dean Wolbach	Mendocino County AQMD
Bob Nunes	Monterey Bay Unified APCD
Tom Roemer	San Luis Obispo County APCD
Gordon Garry	Sacramento Area COG
Dana Coe	Sonoma Technology Inc.
Tami Haste	Sonoma Technology Inc
Deb Neimeier	UC Davis
Dennis Wade	Caltrans
Karen Magliano	ARB
Linda Murchison	ARB
John Nguyen	ARB
Andrew Ranzieri	ARB
Dale Shimp	ARB
Tina Suarez-Murias	ARB
Saffet Tanrikulu	ARB
Peggy Taricco	ARB
Cheryl Taylor	ARB
Ed Yotter	ARB

1. Welcome

Dale Shimp welcomed everyone to the call. Introductions were made.

2. Feedback from the December 7 Technical Committee Meeting

Saffet Tanrikulu summarized the latest activities of the Technical Committee (TC). On December 7, the TC asked that summaries be written of the presentations given at the November 9 TC meeting. The presentations covered emission inventory improvements that will affect CCOS. At the December 9 meeting, the TC reviewed changes to the CCOS field study plan. The TC will meet on December 15 and hopefully give approval of the fields study plan. If the TC gives approval of the field study plan, it will go to the Policy Committee for approval on January 7.

3. Status of Research Projects

Status of Scoping Study for Collecting Day-Specific Traffic Count Data

Members of the EICG were sent a document from Dr. Debbie Niemeier of UC Davis. The document shows preliminary cost estimates for collecting day-specific traffic count data for the CCOS domain. Linda Murchison stated that the cost estimates were two to three times higher than the \$600,000 available for the project.

Dr. Niemeier then described the analysis that led to the cost estimates. The analysis is based on data from Caltrans Districts 1. In order to cover every day and time period, Dr. Niemeier divided each day into three time periods and the days of the week into four groups. Dr. Niemeier then grouped together the count locations that have similar diurnal profiles to minimize the number of sites needed to get a statistically representative sample. There must be at least one location counted for each time period-cluster combination. Cost estimates were extrapolated for the remaining districts in the CCOS domain based on the results of the analysis for Districts 1. Ultimately, Dr. Niemeier will calculate factors that will be applied to the travel demand models to represent the intensive operating days.

Members of the EICG asked many questions of Dr. Niemeier and discussed possible ways to reduce costs. Ideas include changing the approach or assigning priority to certain areas of the CCOS domain in which to collect count data. The EICG agreed to form a sub-committee to investigate the options for the available funding. The first face-to-face meeting will be on December 21 from 9:30 am to 12:30 pm at ARB. EICG members are encouraged to attend or send comments.

Development of Base Year and Future Year Gridding Surrogates for Spatial Distribution of Area and Off-Road Source Emission Categories

Dale Shimp asked for comments on the workplan prepared by STI. Jim Sweet requested two additions; STI agreed to both. First, Task 4 will include a review by the EICG of plots of the spatial distributions. Second, the EICG will have the opportunity to review the assumptions in the base year surrogates before STI creates the future year surrogates.

Development of Input Databases for a Biogenic Hydrocarbon Emissions Inventory for the CCOS Modeling Domain

Dale asked for comments on the scope of work prepared by John Karlik of the University of California Cooperative Extension. Stephen Shaw raised a concern about the need for this study in light of information presented at the recent biogenics symposium. The EICG discussed the need for this project. Dale agreed to send the EICG a matrix showing data inputs to BEIGIS (ARB's GIS-based program that calculates biogenic emissions), the source of the data and the level of confidence in the data. The EICG will discuss how to best use the available funds at the next meeting.

Small District Assistance

Dale gave the status of this project. Staff from the ARB met with the Sacramento Valley and Mountain Counties TAC members to request their input on how to best provide assistance for emission inventory improvement. The TAC members communicated three main points. First, they felt that more emphasis should be placed on improving district area source emissions than

point sources. Second, the data to update the point source inventory is available but there is not always enough time to update the inventory. Third, the TAC members liked the idea of using students rather than a consultant to update the point sources. More person-hours would be available to gather and input data. The TAC members did feel strongly that the student approach would only be acceptable as long as the students have adequate training, updates to point source data are done with a systematic approach and district staff does not have to supervise the students.

Based on the TAC members' input, ARB requested STI to revise the workplan to update the point and area source inventories for small districts in the Sacramento Valley and Mountain Counties Air Basins. ARB will send out a revised workplan from STI in the next couple of weeks. An expanded workplan for updating point sources using student assistants will also be sent out in the same timeframe.

4. CCOS Emission Inventory Preparation Plan – Focus on Area Source Inventory Development

Based on comments received from Northern Sierra AQMD, the Stationary Source Area portion of the 1999 Baseline Annual Average Emission Inventory Development (section Ib) will be separated into two parts. One part will cover area source categories for which ARB is responsible and the other part will cover area source categories for which the districts are responsible. The tasks are different for the two parts and will be reflected in the plan.

Some districts will have their area source categories updated by STI as part of the small district assistance project. These districts include Lake, Northern Sonoma, Mendocino, those in the Mountain Counties Air Basin and those in the Sacramento Valley except Sacramento Metro. For the remaining districts, the EICG discussed how to decide which district area source categories should be updated. San Joaquin Valley Unified APCD has already begun this process. ARB provided a list of area source categories ranked by NO_x and ROG emissions. Also provided was the date that each category was last updated. This list can be used to guide districts on which categories should be given priority to update. Dale offered to provide the same kind of list in the next couple of months.

Brigitte Tollstrup raised the question of whether district area source methodologies should be reviewed for consistency and how any differences should be reconciled. The EICG agreed to discuss this at a future meeting.

Brigitte also asked about the kinds of data that needs to be collected for agricultural and prescribed burning. Cheryl will distribute that information to the EICG.

A revised preparation plan will be distributed before the next meeting.

5. Other Issues

No other issues were raised.

6. Plans for Next Meeting

The next conference call is scheduled for January 19 from 1:30 to 3:30 p.m.